

IN THE CLAIMS

1. (currently amended) A data processing apparatus for processing content data provided by a recording or communication medium, said apparatus comprising:

 a cryptography process section for executing a cryptography process on said content data; and

 a control section for executing control for said cryptography process section, wherein said cryptography process section is configured to:

 split a first portion of header data of the content data having data on usage policy into a plurality of first messages, said header data including a first stored check value therein,

 generate a first integrity check value or values from a first key stored in said cryptography process section to verify integrity of the header data by using said plurality of first messages,

 collate said first integrity check value or values to verify said first portion of the header data including the usage policy by comparing said first integrity check value or values to said first stored check value,

 split a second portion of the header data of the content data having a content key into a plurality of second messages, said header data including a second stored check value therein,

 generate a second integrity check value or values from a second key stored in said cryptography process section to verify integrity of the header data by using said plurality of second messages,

 collate said second integrity check value or values to verify said second portion of the header data including a block information table by comparing said second integrity check value or values to said second stored check value,

 generate an intermediate integrity check value based on said first integrity check value or values and said second integrity check value or values, and

 use said intermediate integrity check value to verify said content data corresponding to said first and second integrity check values.

2-3 (canceled).

4. (previously presented) The data processing apparatus according to Claim 1, wherein:

 said cryptography process is a DES cryptography process, and

 said cryptography process section is configured to execute said DES cryptography process.

5. (previously presented) The data processing apparatus according to Claim 1, wherein:

 said first integrity check value or values and said second integrity check value or values are message authentication codes generated in a DES-CBC mode using said message and said information to be checked;

 said intermediate integrity check value is a message authentication code generated in said DES-CBC mode using said first integrity check value or values and said second integrity check value or values to be checked, and

 said cryptography process section is configured to execute said cryptography process in said DES-CBS mode.

6. (previously presented) The data processing apparatus according to Claim 5, wherein Triple DES is applied in part of a message string to be processed in said DES-CBC mode.

7. (previously presented) The data processing apparatus according to Claim 1, further comprising:

 a signature key wherein: said cryptography process section is configured to apply a value generated from said intermediate integrity check value by means of said signature key as a collation value for data verification.

8. (previously presented) The data processing apparatus according to Claim 7, wherein:

 said signature key includes a plurality of different signature keys; and

 said cryptography process section is configured to apply one of said plurality of different signature keys, which is selected depending on a localization of said content data, to

said cryptography process for said intermediate integrity check value to obtain said collation value for data verification.

9. (previously presented) The data processing apparatus according to Claim 8, further comprising:

a common signature key common to all entities of a system for executing a data verifying process; and

an apparatus-specific signature key specific to each apparatus that executes said data verifying process.

10-11 (canceled).

12. (previously presented) The data processing apparatus according to Claim 1, further comprising a recording device for storing data validated by said cryptography process section.

13. (previously presented) The data processing apparatus according to Claim 12, wherein:

 said control section suspends storing of said data in said recording device if a process of collating said first integrity check value or values and said second integrity check value or values is not established in said cryptography process executed by said cryptography process section.

14. (previously presented) The data processing apparatus according to Claim 1, further comprising a reproduction process section for reproducing data validated by said cryptography process section.

15. (previously presented) The data processing apparatus according to Claim 14, wherein:

 said control section suspends reproducing of said data in said reproduction process section if a process of collating said first integrity check value or values and said second

integrity check value or values is not established in said cryptography process executed by said cryptography process section.

16. (previously presented) The data processing apparatus according to Claim 14, further comprising:

control means for collating only header section integrity check values in said data during said cryptography process executed by said cryptography process section to collate said first integrity check value or values and said second integrity check value or values; and

transmitting to said reproduction process section said data for which collation of said header section integrity check values has been established.

17-18 (canceled).

19. (currently amended) A data processing method for processing content data provided by a recording or communication medium, said method comprising:

splitting a first portion of header data of the content data having data on usage policy into a plurality of first messages, said header data including a first stored check value therein;

generating first integrity check value or values from a first key to verify integrity of the header data by using said plurality of first messages;

collating said first integrity check value or values to verify said first portion of the header data including the usage policy by comparing said first integrity check value or values to said first stored check value;

if said first portion of the header data is verified, splitting a second portion of the header data of the content data having a content key into a plurality of second messages, said header data including a second stored check value therein;

generating second integrity check value or values from a second key to verify integrity of the header data by using said plurality of second messages;

collating said second integrity check value or values to verify said second portion of the header data including a block information table by comparing said second integrity check value or values to said second stored check value;

if said second portion of the header data is verified, generating an intermediate integrity check value based on said first integrity check value or values and said second integrity check value or values; and

verifying said content data corresponding to said first and second integrity check values using said intermediate integrity check value.

20-21 (canceled).

22. (previously presented) The data processing method according to Claim 19, wherein said cryptography process is a DES cryptography process.

23. (previously presented) The data processing method according to Claim 19, wherein:

 said first integrity check value or values and said second integrity check value or values include message authentication codes generated in a DES-CBC mode using said message and said information; and

 said intermediate integrity check value is a message authentication code generated in said DES-CBC mode using said first integrity check value or values and said second integrity check value or values.

24. (previously presented) The data processing method according to Claim 19, wherein a value generated from said intermediate integrity check value by means of a signature key-applied cryptography process is applied as a collation value for data verification.

25. (previously presented) The data processing method according to Claim 24, wherein different signature keys are applied to said cryptography process for said intermediate integrity check value depending on a localization of content data, said different signature keys being applied to obtain said collation value for data verification.

26. (previously presented) The data processing method according to Claim 25, further comprising:

 selecting and using one of

a common signature key common to all entities of a system for executing a data verifying process; and

an apparatus-specific signature key specific to each apparatus that executes said data verifying process,

said selecting step being based on the localization of said content data.

27-28 (canceled).

29. (previously presented) The data processing method according to Claim 19, further comprising storing validated data after verifying said content data.

30. (previously presented) The data processing method according to Claim 29, further comprising suspending said storing of said validated data if collating of said first integrity check value or values and collating of said second integrity check value or values is not established.

31. (previously presented) The data processing method according to Claim 19, further comprising reproducing data after verifying said content data.

32. (previously presented) The data processing method according to Claim 31, further comprising:

suspending said reproducing of said data if collating of said first integrity check value or values and collating of said second integrity check value or values is not established.

33. (previously presented) The data processing method according to Claim 31, wherein:

said collating of said first integrity check value or values only collates header section integrity check values and transmits said data for which collation of said header section integrity check values has been established to a reproduction process section for reproduction.

34-35 (canceled).

36. (currently amended) A data verifying value imparting method for a data verifying process, said method comprising:

splitting a first portion of header data of data having data on usage policy into a plurality of first messages, said header data including a first stored check value therein;

imparting first integrity check value or values by using said plurality of first messages;

comparing said first integrity check value or values to said first stored check value to verify a usage policy of said header data;

if said usage policy is verified, splitting a second portion of the header data of the data having a content key into a plurality of second messages, said header data including a second stored check value therein;

imparting second integrity check value or values by using said plurality of second messages;

comparing said second integrity check value or values to said second stored check value to verify a block information table of said header data; and

if said block information table is verified, imparting an intermediate integrity check value to data to be verified, said intermediate integrity check value being used to verify content data corresponding to said first integrity check value or values and said second integrity check value or values.

37-38 (canceled).

39. (previously presented) The data verifying value imparting method according to Claim 36 wherein said cryptography process is a DES cryptography process.

40. (previously presented) The data verifying value imparting method according to Claim 36, wherein:

said first integrity check value or values and said second integrity check value or values are message authentication codes generated in a DES-CBC mode using said message and said information; and

said intermediate integrity check value is said message authentication code generated in said DES-CBC mode using said first integrity check value or values and said second integrity check value or values.

41. (previously presented) The data verifying value imparting method according to Claim 36 wherein a value generated from said intermediate integrity check value by means of a signature key-applied cryptography process is applied as a collation value for data verification.

42. (previously presented) The data verifying value imparting method according to Claim 41, wherein different signature keys are applied to said cryptography process for said intermediate integrity check value to obtain said collation value, said different signature keys being applied depending on a localization of content data.

43. (previously presented) The data verifying value imparting method according to claim 42, further comprising:

selecting either a common signature key or an apparatus-specific signature key as one of said different signature keys depending upon the localization of said content data, said common signature key being common to all entities of a system for executing said data verifying process, and said apparatus-specific signature key being specific to each apparatus that executes said data verifying process.

44-45 (canceled).

46. (currently amended) A recording medium recorded with a computer program for executing a data verifying process having certain actions, said actions comprising:

splitting a first portion of header data of data having data on usage policy into a plurality of first messages, said header data including a first stored check value therein;

executing a collation process using a first integrity check value or values generated by using said plurality of first messages, including comparing said first integrity check value or values to said first stored check value to verify a usage policy of said header data;

if said usage policy is verified, splitting a second portion of the header data of the data having a data key into a plurality of second messages, said header data including a second stored check value therein;

executing a collation process using a second integrity check value or values generated by using the plurality of second messages, including comparing said second integrity check value or values to said second stored check value to verify a block information table of said header data; and

if said block information table is verified, using an intermediate integrity check value to verify said content data corresponding to said first and second integrity check values, said intermediate integrity check value being based on an integrity check value set obtained by combining at least some of said first and second integrity check values together.

47-178 (canceled).

179. (previously presented). The data processing apparatus according to claim 1, wherein the plurality of messages provide multiple input data for a staged encryption.

180. (cancelled)

181. (previously presented). The data processing method according to claim 19, wherein the plurality of messages provide multiple input data for a staged encryption.

182. (cancelled).